SECTION XVI

MACHINERY AND MECHANICAL APPLIANCES;
ELECTRICAL EQUIPMENT; PARTS THEREOF; SOUND
RECORDERS AND REPRODUCERS, TELEVISION IMAGE
AND SOUND RECORDERS AND REPRODUCERS, AND PARTS
AND ACCESSORIES OF SUCH ARTICLES

XVI-1

Notes

- 1. This section does not cover:
 - (a) Transmission, conveyor or elevator belts or belting, of plastics of chapter 39, or of vulcanized rubber (heading 4010); or other articles of a kind used in machinery or mechanical or electrical appliances or for other technical uses, of vulcanized rubber other than hard rubber (heading 4016);
 - (b) Articles of leather or of composition leather (heading 4204) or of furskin (heading 4303), of a kind used in machinery or mechanical appliances or for other technical uses;
 - (c) Bobbins, spools, cops, cones, cores, reels or similar supports, of any material (for example, chapter 39, 40, 44 or 48 or section XV);
 - (d) Perforated cards for Jacquard or similar machines (for example, chapter 39 or 48 or section XV);
 - (e) Transmission or conveyor belts of textile material (heading 5910) or other articles of textile material for technical uses (heading 5911);
 - (f) Precious or semiprecious stones (natural, synthetic or reconstructed) of headings 7102 to 7104, or articles wholly of such stones of heading 7116, except unmounted worked sapphires and diamonds for styli (heading 8522);
 - (g) Parts of general use, as defined in note 2 to section XV, of base metal (section XV), or similar goods of plastics (chapter 39);
 - (h) Drill pipe (heading 7304);
 - (ij) Endless belts of metal wire or strip (section XV);
 - (k) Articles of chapter 82 or 83;
 - (1) Articles of section XVII;
 - (m) Articles of chapter 90;
 - (n) Clocks, watches or other articles of chapter 91;
 - (o) Interchangeable tools of heading 8207 or brushes of a kind used as parts of machines (heading 9603); similar interchangeable tools are to be classified according to the constituent material of their working part (for example, in chapter 40, 42, 43, 45 or 59 or heading 6804 or 6909); or
 - (p) Articles of chapter 95.
- 2. Subject to note 1 to this section, note 1 to chapter 84 and to note 1 to chapter 85, parts of machines (not being parts of the articles of heading 8484, 8544, 8545, 8546 or 8547) are to be classified according to the following rules:
 - (a) Parts which are goods included in any of the headings of chapters 84 and 85 (other than headings 8409, 8431, 8448, 8466, 8473, 8485, 8503, 8522, 8529, 8538 and 8548) are in all cases to be classified in their respective headings;
 - (b) Other parts, if suitable for use solely or principally with a particular kind of machine, or with a number of machines of the same heading (including a machine of heading 8479 or 8543) are to be classified with the machines of that kind or in heading 8409, 8431, 8448, 8466, 8473, 8503, 8522, 8529 or 8538 as appropriate. However, parts which are equally suitable for use principally with the goods of headings 8517 and 8525 to 8528 are to be classified in heading 8517;
 - (c) All other parts are to be classified in heading 8409, 8431, 8448, 8466, 8473, 8503, 8522, 8529 or 8538 as appropriate or, failing that, in heading 8485 or 8548.
- 3. Unless the context otherwise requires, composite machines consisting of two or more machines fitted together to form a whole and other machines adapted for the purpose of performing two or more complementary or alternative functions are to be classified as if consisting only of that component or as being that machine which performs the principal function.
- 4. Where a machine (including a combination of machines) consists of individual components (whether separate or interconnected by piping, by transmission devices, by electric cables or by other devices) intended to contribute together to a clearly defined function covered by one of the headings in chapter 84 or chapter 85, then the whole falls to be classified in the heading appropriate to that function.
- 5. For the purposes of these notes, the expression "<u>machine</u>" means any machine, machinery, plant, equipment, apparatus or appliance cited in the headings of chapter 84 or 85.

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Additional U.S. Note

1. For the purposes of this section, the term "printed circuit assembly" means goods consisting of one or more printed circuits of heading 8534 with one or more active elements assembled thereon, with or without passive elements. For the purposes of this note, "active elements" means diodes, transistors and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and microassemblies of heading 8542.

Statistical Note

- Provisions for semiconductor manufacturing and testing machines and apparatus cover products for the growth and processing of semiconductor materials, such as silicon and gallium arsenide, the processing of such materials into semiconductor devices and the testing of such devices (in general the testing equipment, as well as some of the processing equipment, is classified in chapter 90). More specifically the goods include the following:
 - (a) Wafer manufacturing equipment:
 - (i) Crystal growers & pullers. used to produce extremely pure monocrystalline semiconductor boules from which wafers can be sliced. Most common methods employed in these crystal growers and pullers are the Czochralski and float zone methods.
 - (ii) Wafer preparation equipment:
 - (A) Crystal grinders used to grind the crystal boule to precise diameter required for wafers and to grind the flats on the boule to indicate the conductivity type and resistivity of the crystal.
 - (B) Wafer slicing saws used to slice wafers from a boule of monocrystalline semiconductor material.
 - (C) Wafer grinders, lappers and polishers used to prepare the semiconductor wafer for the fabrication process.

 This involves bringing the wafer within dimensional tolerances. Especially critical is the flatness of its surface
 - (b) Mask fabrication and repair equipment -
 - (i) Fabrication equipment used to transfer design patterns to a mask or reticle, this equipment generally utilizes optical, electron beam or X-rays to write circuit patterns on photoresist coated substrates. After development, these substrates become the mask or reticle for wafer fabrication.
 - (ii) Repair equipment this equipment generally utilizes focused ion beams or laser beams. They are used directly on the mask or reticle to remove chrome.
 - (c) Wafer fabrication equipment:
 - (i) Film formation equipment used to apply or produce various films on the surface of the wafer during the fabrication process. These films serve as conductors, insulators and semiconductors on the finished device. They may include oxides and nitrides of the substrate surface, metals, and epitaxial layers. The processes and equipments listed below are not necessarily limited to the generation of a particular type of film.
 - (A) Oxidation furnaces used to form a "film" of oxide on the wafer. The oxide is formed by the chemical reaction of the top molecular layers of the wafer with the applied oxygen or steam under heat.
 - (B) Chemical Vapor Deposition (CVD) equipment used to deposit various types of films which are obtained by combining the appropriate gases in a reactant chamber at elevated temperatures. This constitutes a thermochemical vapor-phase reaction. Operations may take place at atmospheric or low pressure (LPCVD) and may use plasma enhancement (PECVD).
 - (C) Physical Vapor Deposition (PVD) equipment used to deposit various types of films which are obtained by vaporizing a solid.
 - (1) Evaporation equipment in which the film is generated by heating the source material.
 - (2) Sputtering equipment in which the film is generated by bombarding the source material (target) with ions.
 - (D) Molecular Beam Epitaxy (MBE) equipment used to grow epitaxial layers on a heated monocrystalline substrate in an ultrahigh vacuum using beams of molecules. The process is similar to PVD.
 - (ii) Doping equipment which is used to introduce dopants into the wafer surface in order to modify the conductivity or other characteristics of a semiconductor layer:
 - (A) Thermal diffusion equipment in which the dopants introduced into the surface of the wafer by the application of gases under high temperatures.
 - (B) Ion Implantation in which the dopants are "driven" into the crystal lattice structure of the surface of the wafer in the form a beam of accelerated ions.
 - (C) Annealing furnaces which are used to repair the crystal lattice structures of the wafer damaged by ion implantation.

- (iii) Etching and stripping equipment used for etching or cleaning surfaces of the wafers.
 - (A) Wet etching equipment in which chemical etching materials are applied by spraying or immersion. Spray etchers provide more uniform results than bath etchers, since they perform the operation on one wafer at a time.
 - (B) Dry plasma etching in which etching materials are presented as gases within a plasma energy field, providing an anisotropic etch profile.
 - (C) Ion beam milling equipment in which ionized gas atoms are accelerated toward the wafer surface. The impact results in the top layer being physically removed from the surface.
 - (D) Strippers or ashers using techniques similar to etching this apparatus removes the spent photoresist from the surface of the wafer after it has served its purpose as a "stencil". This equipment is also used for removal of nitrides, oxides, and polysilicon, with an isotropic etch profile.
- (iv) Lithography equipment used to transfer the circuit designs to the photoresist coated surface of the semiconductor wafer.
 - (A) Equipment for coating wafers with photoresist these include the photoresist spinners which are used to apply liquid photoresist evenly over the surface of the wafer.
 - (B) Equipment for exposing the photoresist coated wafer with the circuit design (or a part thereof):
 - (1) Using a mask or reticle and exposing the photoresist to light (generally ultraviolet) or, in some instances, X-rays:
 - (a) Contact printers where the mask or reticle is in contact with the wafer during exposure.
 - (b) Proximity aligners similar to contact aligners except actual contact doesn't take place between the mask or reticle and the wafer.
 - (c) Scanning aligners which use projection techniques to expose a continuously moving slit across the mask and wafer.
 - (d) Step and repeat aligners which use projection techniques to expose the wafer a portion at a time. Exposure can be by reduction from the mask to the wafer or 1:1. Enhancements include the use of an excimer laser.
 - (2) Direct write on wafer equipment these apparatus operate with no mask or reticle. They use a computer controlled "writing beam" (such as, an electron beam (E-beam), ion beam or laser) to "draw" the circuit design directly on the photoresist coated wafer.
 - (C) Equipment for developing exposed wafers these include chemical baths similar to those used in photographic laboratory applications
- (d) Assembly equipment
 - (i) Dicing equipment these include sawing machines and scribing machines (including laser scribers) and dicing accessories such as wafer breaking equipment.
 - (ii) Die bonding equipment which installs the die to the package by soldering or gluing
 - (iii) Wire bonding equipment used for attaching thin wires or tapes (usually of gold, aluminum or copper) from the die bonding pads to the corresponding pads on the package.
 - (iv) Packaging equipment which are used to encapsulate or package a semiconductor device. They include sealing furnaces, lid welders, plastic encapsulation presses, lead trim and form equipment, package deflashers, and tin dip and solder plate equipment.
- (e) Testing and inspection equipment
 - (i) Optical inspection equipment These include equipment that "examines" portions of the wafer surface and compares them either to a standard pattern or to other portions of the wafer surface.
 - (ii) Electrical testing equipment These include computer controlled systems that test the functions and electrical specifications of semiconductor devices through the application and detection of electrical signals or patterns. Testing is performed on both unencapsulated dice and packaged integrated circuits.

CHAPTER 84

NUCLEAR REACTORS, BOILERS, MACHINERY AND MECHANICAL APPLIANCES; PARTS THEREOF

XVI 84-1

Notes

- 1. This chapter does not cover:
 - (a) Millstones, grindstones or other articles of chapter 68;
 - (b) Machinery or appliances (for example, pumps) of ceramic material and ceramic parts of machinery or appliances of any material (chapter 69);
 - (c) Laboratory glassware (heading 7017); machinery, appliances or other articles for technical uses or parts thereof, of glass (heading 7019 or 7020);
 - (d) Articles of heading 7321 or 7322 or similar articles of other base metals (chapters 74 to 76 or 78 to 81);
 - (e) Electromechanical tools for working in the hand, of heading 8508, or electromechanical domestic appliances of heading 8509; or
 - (f) Hand-operated mechanical floor sweepers, not motorized (heading 9603).
- 2. Subject to the operation of note 3 to section XVI, a machine or appliance which answers to a description in one or more of the headings 8401 to 8424 and at the same time to a description in one or more of the headings 8425 to 8480 is to be classified under the appropriate heading of the former group and not the latter.

Heading 8419 does not, however, cover:

- (a) Germination plant, incubators or brooders (heading 8436);
- (b) Grain-dampening machines (heading 8437);
- (c) Diffusing apparatus for sugar juice extraction (heading 8438);
- (d) Machinery for the heat treatment of textile yarns, fabrics or made up textile articles (heading 8451); or
- (e) Machinery or plant, designed for mechanical operation, in which a change of temperature, even if necessary, is subsidiary.

Heading 8422 does not cover:

- (a) Sewing machines for closing bags or similar containers (heading 8452); or
- (b) Office machinery of heading 8472.

Heading 8424 does not cover:

Ink-jet printing machines (heading 8443 or 8471).

- 3. A machine tool for working any material which answers to a description in heading 8456 and at the same time to a description in heading 8457, 8458, 8459, 8460, 8461, 8464 or 8465 is to be classified in heading 8456.
- 4. Heading 8457 applies only to machine tools for working metal, other than lathes (including turning centers), which can carry out different types of machining operations either:
 - (a) by automatic tool change from a magazine or the like in conformity with a machining program (machining centers),
 - (b) by the automatic use, simultaneously or sequentially, of different unit heads working on a fixed position workpiece (unit construction machines, single station), or
 - (c) by the automatic transfer of the workpiece to different unit heads (multi-station transfer machines).

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- 5. (A) For purposes of heading 8471, the expression "automatic data processing machines" means:
 - (a) Digital machines, capable of (1) storing the processing program or programs and at least the data immediately necessary for execution of the program; (2) being freely programmed in accordance with the requirements of the user; (3) performing arithmetical computations specified by the user; and, (4) executing, without human intervention, a processing program which requires them to modify their execution, by logical decision during the processing run;
 - (b) Analog machines capable of simulating mathematical models and comprising at least: analog elements, control elements and programming elements;
 - (c) Hybrid machines consisting of either a digital machine with analog elements or an analog machine with digital elements.
 - (B) Automatic data processing machines may be in the form of systems consisting of a variable number of separate units. Subject to paragraph (E) below, a unit is to be regarded as being a part of a complete system if it meets all the following conditions:
 - (a) It is of a kind solely or principally used in an automatic data processing system;
 - (b) It is connectable to the central processing unit either directly or through one or more other units; and
 - (c) It is able to accept or deliver data in a form (codes or signals) which can be used by the system.
 - (C) Separately presented units of an automatic data processing machine are to be classified in heading 8471.
 - (D) Printers, keyboards, X-Y coordinate input devices and disk storage units which satisfy the conditions of paragraphs (B)(b) and (B)(c) above, are in all cases to be classified as units of heading 8471.
 - (E) Machines performing a specific function other than data processing and incorporating or working in conjunction with an automatic data processing machine are to be classified in the headings appropriate to their respective functions or, failing that, in residual headings.
- 6. Heading 8482 applies, inter alia, to polished steel balls, the maximum and minimum diameters of which do not differ from the nominal diameter by more than 1 percent or by more than 0.05 mm, whichever is less. Other steel balls are to be classified under heading 7326.
- 7. A machine which is used for more than one purpose is, for the purposes of classification, to be treated as if its principal purpose were its sole purpose.
 - Subject to note 2 to this chapter and note 3 to section XVI, a machine the principal purpose of which is not described in any heading or for which no one purpose is the principal purpose is, unless the context otherwise requires, to be classified in heading 8479. Heading 8479 also covers machines for making rope or cable (for example, stranding, twisting or cabling machines) from metal wire, textile yarn or any other material or from a combination of such materials.
- 8. For the purposes of heading 8470, the term "pocket-size" applies only to machines the dimensions of which do not exceed 170 mm x 100 mm x 45 mm.

Subheading Notes

- For the purposes of subheading 8471.49, the term "systems" means automatic data processing machines whose units satisfy the conditions laid down in note 5(B) to chapter 84 and which comprise at least a central processing unit, one input unit (for example, a keyboard or a scanner), and one output unit (for example, a visual display unit or a printer).
- 2. Subheading 8482.40 applies only to bearings with cylindrical rollers of a uniform diameter not exceeding 5 mm and having a length which is at least three times the diameter. The ends of the rollers may be rounded.

Additional U.S. Note

1. For the purposes of subheadings 8479.89.65 and 8479.89.97, the rate of duty "Free (C)" appearing in the column entitled "1-Special" applies only to the following articles: nonelectric starter motors; propeller regulators, nonelectric; servo-mechanisms, nonelectric; windshield wipers, nonelectric; hydropneumatic accumulators; pneumatic starters for turbojets, turbopropellers, or other gas turbines; toilet units specially designed for aircraft; mechanical actuators for thrust reversers.

- 2. Subheadings 8473.30.30 and 8473.30.60 cover the following parts of printers of subheading 8471.60:
 - (a) Control or command assemblies, incorporating more than one of the following: printed circuit assembly, hard or flexible (floppy) disk drive, keyboard, user interface;
 - (b) Light source assemblies, incorporating more than one of the following: light emitting diode assembly, gas laser, mirror polygon assembly, base casting;
 - (c) Laser imaging assemblies, incorporating more than one of the following: photoreceptor belt or cylinder, toner receptacle unit, toner developing unit, charge/discharge units, cleaning unit;
 - (d) Image fixing assemblies, incorporating more than one of the following: fuser, pressure roller, heating element, release oil dispenser, cleaning unit, electrical control;
 - (e) Ink jet marking assemblies, incorporating more than one of the following: thermal print head, ink dispensing unit, nozzle and reservoir unit, ink heater;
 - (f) Maintenance/sealing assemblies, incorporating more than one of the following: vacuum unit, ink jet covering unit, sealing unit, purging unit;
 - (g) Paper handling assemblies, incorporating more than one of the following: paper transport belt, roller, print bar, carriage, gripper roller, paper storage unit, exit tray;
 - (h) Thermal transfer imaging assemblies, incorporating more than one of the following: thermal print head, cleaning unit, supply or take-up roller;
 - (ij) Ionographic imaging assemblies, incorporating more than one of the following: ion generation and emitting unit, air assist unit, printed circuit assembly, charge receptor belt or cylinder, toner receptacle unit, toner distribution unit, developer receptacle and distribution unit, developing unit, charge/discharge unit, cleaning unit; or
 - (k) Combinations of the above specified assemblies.
- 3. For the purposes of subheadings 8466.10.40, 8466.20.40 and 8466.30.45, the expression "machines described in additional U.S. note 3 to chapter 84" means any of the following machines: machines of subheading 8456.10.60; machines of subheading 8456.91; machines of 8456.99.10; machines of subheading 8462.21.40 or 8462.29.40; machines of subheading 8462.10 for sawing monocrystal semiconductor boules into slices, or wafers into chips; machines of subheading 8464.20.10; machines of subheading 8464.90.60.

8401		Nuclear reactors; fuel elements (cartridges), non-irradiated, for nuclear reactors; machinery and apparatus for isotopic separation; parts thereof:			
8401.10.00	00	Nuclear reactors	t	3.9%	Free (A,CA,E,IL,J,45% MX)
8401.20.00	00	Machinery and apparatus for isotopic separation, and parts thereof	t	2.6%	Free (A,CA,E,IL,J,35% MX)
8401.30.00	00	Fuel elements (cartridges), non-irradiated, and parts thereof	x	3.9%	Free (A,CA,E,IL,J,45% MX)
8401.40.00	00	Parts of nuclear reactors	t	3.9%	Free (A,CA,E,IL,J,45% MX)
8402	0.0	Steam or other vapor generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); superheated water boilers; parts thereof: Steam or other vapor generating boilers:			
8402.11.00	00	Watertube boilers with a steam production exceeding 45 t per hour	t	5.5%	Free (A,CA,E,IL,J,45% MX)
8402.12.00	00	Watertube boilers with a steam production not exceeding 45 t per hour	t	4.7%	Free (A,CA,E,IL,J,45% MX)
8402.19.00	00	Other vapor generating boilers, including hybrid boilers	t	5.5%	Free (A,CA,E,IL,J,45%
8402.20.00	00	Super-heated water boilers	t	3.9%	MX) Free (A,CA,E,IL,J,45%
8402.90.00		Parts		4.7%	MX) Free (A,CA,E,IL,J,45% MX)
	10 90	Heat exchangers Other			1112)
8403		Central heating boilers (other than those of heading 8402) and parts thereof:			
8403.10.00 8403.90.00	00	Boilers Parts			45% 45%
8404		Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economizers, superheaters, soot removers, gas recoverers); condensers for steam or other vapor power units; parts thereof:			
8404.10.00		Auxiliary plant for use with boilers of heading 8402 or 8403		4.2%	Free (A,CA,E,IL,J,45% MX)
8404.20.00	10 50 00	Economizers Other Condensers for steam or other vapor power			THT)
		units	t	5.9%	Free (A,CA,E,IL,J,45% MX)
8404.90.00	00	Parts	X	4.2%	Free (A,CA,E,IL,J,45% MX)
8405	0.0	Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers; parts thereof:			
8405.10.00	00	Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers	Y	Free	45%
8405.90.00	00	Parts			45%
					150

8406		Steam turbines and other vapor turbines, and parts thereof:					
8406.10		Turbines for marine propulsion:					
8406.10.10	00	Steam turbines	No	6.9%	Free	(A,CA,E,IL, J,MX)	20%
8406.10.90	00	OtherOther turbines:	No	Free		0 /1111/	27.5%
8406.81		Of an output exceeding 40 MW:					
8406.81.10		Steam turbines		6.9%	Free	(A,CA,E,IL, J,MX)	20%
	20	Stationary steam turbines, condensing type	No.				
	70	Other	No				
8406.81.90	00	Other		Free			27.5%
8406.82		Of an output not exceeding 40 MW:					
8406.82.10		Steam turbines		6.9%	Free	(A,CA,E,IL, J,MX)	20%
		Stationary steam turbines, condensing type:					
	10 20	Not exceeding 7,460 kW Exceeding 7,460 kW					
	50	Other:	Ma				
	70	Not exceeding 7,460 kW Exceeding 7,460 kW					
8406.82.90	00	Other		Free			27.5%
8406.90	00	Parts:	NO	FIEC			27.5%
0100.50		Of steam turbines:					
8406.90.20	00	Rotors, finished for final					
		assembly	No	6.9%	Free	(A,CA,E,IL,J MX)	7, 20%
8406.90.30	00	Rotors, not further advanced than					
		<pre>cleaned or machined for removal of fins, gates, sprues, and risers,</pre>					
		or to permit location in finishing					
		machinery	No	6.9%	Free	(A,CA,E,IL,J	70%
		machinery	1.0	0.50	1100	MX)	, 200
8406.90.40	00	Blades, rotating or stationary	No	6.9%	Free	(A,CA,E,IL,J	۲, 20%
						MX)	
8406.90.45		Other		6.9%	Free	(A,CA,E,IL,J	۲,20%
						MX)	
	40	Rotors or spindles and rotor or spindle assemblies	No.				
	80	Other	Х				
		Other:					
8406.90.50	00	Rotors, finished for final					
		assembly	No	0.9%	Free	(A,CA,E,IL,J	7,27.5%
						MX)	
0406 00 60	0.0	Determ and fronther advanced then					
8406.90.60	00	Rotors, not further advanced than cleaned or machined for removal					
		of fins, gates, sprues, and risers,					
		or to permit location in finishing					
		machinery	No	0.9%	Free	(A,CA,E,IL,J	7,27.5%
		•				MX)	
	_						
8406.90.70	00	Blades, rotating or stationary	No	0.9%	Free	(A,CA,E,IL,J	7, 27.5%
						MX)	
8406.90.75	0.0	Other	v	0.9%	Free	(A CA E TT 7	77 5%
0400.90./5	00	Orner	Δ	0.36	rree	(A,CA,E,IL,J MX)	, 41.56
						1.157)	

8407		Spark-ignition reciprocating or rotary internal combustion piston engines:				
8407.10.00		Aircraft engines For use in civil aircraft <u>1</u> /:		Free		35%
	20	New: Less than 373 kW				
	40 60	373 kW or over Used or rebuilt	No.			
	90	Other Marine propulsion engines:	No.			
8407.21.00	40	Outboard motorsLess than 22.38 kW		Free		35%
8407.29.00	80	Other	No.	Free		35%
6407.29.00	10	Inboard engines with outboard drive		riee		33%
		Inboard engines with inboard drive:				
	20 30	Less than 746 W	No.			
	30	746 W or greater, but not exceeding 18.65 kW	No.			
	40	Exceeding 18.65 kW	No.			
8407.31.00		Reciprocating piston engines of a kind used for the propulsion of vehicles of chapter 87: Of a cylinder capacity not exceeding				
	40	50 cc		Free		35%
8407.32	80	Other				
		Of a cylinder capacity exceeding 50 cc but not exceeding 250 cc:				
8407.32.10	00	To be installed in tractors suit- able for agricultural use	No	Free		Free
8407.32.20		To be installed in vehicles of sub-				
		heading 8701.20, or heading 8702, 8703 or 8704		Free		35%
	40 80	Used or rebuilt	No.			
8407.32.90	40	Other		Free		35%
	80	Not exceeding 18.65 kW Exceeding 18.65 kW				
8407.33		Of a cylinder capacity exceeding 250 cc but not exceeding 1,000 cc:				
8407.33.10		To be installed in tractors suit-able for agricultural use		Free		Free
	30	Not exceeding 37.3 kW Exceeding 37.3 kW:	No.			
	60	Air-cooled				
	90	Other To be installed in vehicles of sub- heading 8701.20, or heading 8702,	NO.			
8407.33.30		8703 or 8704: To be installed in vehicles				
		specially designed for traveling on snow, golf				
		carts, non-amphibious all-terrain vehicles and				
	40	burden carriers Used or rebuilt		Free		35%
8407.33.60	80	Other	No.	2 =%	Erron (A.D.CA E.II	258
040/.33.60		Other		2.5%	Free (A,B,CA,E,IL J,MX)	, 356
	40 80	Used or rebuilt Other	No.			
8407.33.90	40	Other Not exceeding 18.65 kW		Free		35%
	80	Exceeding 18.65 kW				

8407 (con.)		Spark-ignition reciprocating or rotary internal combustion piston engines (con.): Reciprocating piston engines of a kind used for the propulsion of vehicles of					
8407.34		chapter 87 (con.): Of a cylinder capacity exceeding 1,000 cc:					
8407.34.05		Of a cylinder capacity not exceeding 2,000 cc: To be installed in tractors suitable for agricultural use		Free			Free
	30 60	Not exceeding 37.3 kW Exceeding 37.3 kW:					
	90	Air-cooled Other To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704:					
8407.34.14	00	Used or rebuilt	No	2.5%	Free	(A,B,CA,E,IL, J,MX)	35%
8407.34.18	00	Other	No	2.5%	Free	(A,B,CA,E,IL, J,MX)	35%
8407.34.25	00	Other Of a cylinder capacity exceeding 2,000 cc:	No	Free			35%
8407.34.35	30	To be installed in tractors suitable for agricultural use Not exceeding 37.3 kW		Free			Free
	60	Exceeding 37.3 kW: Air-cooled					
	90	Other To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704:	NO.				
8407.34.44	00	Used or rebuilt	No	2.5%	Free	(A,B,CA,E,IL, J,MX)	35%
8407.34.48	00	Other	No	2.5%	Free	(A,B,CA,E,IL, J,MX)	35%
8407.34.55 8407.90	00	Other ongines:	No	Free			35%
8407.90.10		To be installed in agricultural or horticultural machinery or equipment Not exceeding 37.3 kW:		Free			Free
	10 20	Less than 4,476 W					
	60 80	Air-cooledOther					
8407.90.90	10	Other		Free			35%
	20 40	Less than 746 W					
	60	4,476 W or greater but not exceeding 18.65 kW	No.				
	80	Exceeding 18.65 kW	No.				

0.4.0.0							
8408		Compression-ignition internal combustion piston engines (diesel or semi-diesel engines):					
8408.10.00		Marine propulsion engines		2.5%	Free	(A,CA,E,IL,J, MX)	35%
	05 15	Not exceeding 111.9 kW Exceeding 111.9 kW but not	No.			1111)	
		exceeding 149.2 kW	No.				
	20	Exceeding 149.2 kW but not exceeding 223.8 kW	No				
		•	1.0.				
	30	Exceeding 223.8 kW but not exceeding 373 kW	No.				
	40	Exceeding 373 kW but not					
		exceeding 746 kW	No.				
	50	Exceeding 746 kW	No.				
8408.20		Engines of a kind used for the propulsion of vehicles of chapter 87:					
8408.20.10		To be installed in tractors suitable					
	40	for agricultural use		Free			Free
	80	Exceeding 37.3 kW					
8408.20.20	00	To be installed in vehicles of					
		subheading 8701.20, or heading 8702, 8703 or 8704	No	2.5%	Free	(A*,B,CA,E,	35%
8408.20.90	0.0	Other	No	2.5%	Free	IL,J,MX) (A*,CA,E,IL,	35%
	00		110	2.50	FICC	J, MX)	336
8408.90 8408.90.10		Other engines:					
8408.90.10		To be installed in agricultural or horticultural machinery or equipment		Free			Free
	40	Not exceeding 37.3 kW					
8408.90.90	80	Exceeding 37.3 kWOther		Free			35%
0100.50.50	10	Not exceeding 149.2 kW		1100			330
	20	Exceeding 149.2 kW but not exceeding 373 kW	No				
		· ·	NO.				
	30	Exceeding 373 kW but not exceeding 746 kW	No.				
	40	Exceeding 746 kW but not					
		exceeding 1,119 kW	No.				
	50	Exceeding 1,119 kW	No.				

8409		Parts suitable for use solely or principally with the engines of heading 8407 or 8408:		_			2.50
8409.10.00	40 80	For aircraft engines	kg	Free			35%
8409.91		Suitable for use solely or principally with spark-ignition internal combustion piston engines (including rotary engines)					
8409.91.10		Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in					
	40	finishing machinery For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704		Free			10%
	60 80	For marine propulsion engines Other:					
		For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704:					
8409.91.30	00	Aluminum cylinder heads	Nov kg	2.5%	Free	(A,B,CA,E,IL J,MX)	, 35%
8409.91.50		Other		2.5%	Free	(A*,B,CA,E, IL,J,MX)	35%
	10	Connecting rods	No. v kg				
8409.91.92	80	Other For marine propulsion engines	kg	2.5%	Free	(A,CA,E,IL,J	, 35%
	10	Connecting rods	No. v kq			1121)	
	90	Other					
8409.91.99		Other		2.5%	Free	(A*,CA,E,IL, J,MX)	35%
	10	Connecting rods	No. v ka			0,1111)	
8409.99	90	Other:	_				
8409.99.10		Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and					
	40	risers or to permit location in finishing machinery For vehicles of subheading		Free			10%
		8701.20, or heading 8702, 8703 or 8704	kg				
	60 80	For marine propulsion engines Other					
8409.99.91		Other: For vehicles of subheading 8701.20, or heading 8702, 8703		0.50	T	(3+ B G) B	250
	10	or 8704		2.5%	riee	(A*,B,CA,E, IL,J,MX)	35%
	90	Connecting rods Other	kg				
8409.99.92		For marine propulsion engines		2.5%	Free	(A,CA,E,IL,J MX)	, 35%
	10	Connecting rods	No. v kg				
8409.99.99	90	Other	kg 	Free			35%
	10	Other Connecting rods	No. v kg				
	90	Other	kg				

 $[\]underline{1}/$ See General Note 6.

8410		Hydraulic turbines, water wheels and regulators therefor; parts thereof: Hydraulic turbines and water wheels:		
8410.11.00	00	Of a power not exceeding 1,000 kW No	4.5%	Free (A,CA,E,IL,J,27.5% MX)
8410.12.00	00	Of a power exceeding 1,000 kW but not exceeding 10,000 kW	4.5%	Free (A,CA,E,IL,J,27.5% MX)
8410.13.00	00	Of a power exceeding 10,000 kW No	4.5%	Free (A,CA,E,IL,J,27.5% MX)
8410.90.00	00	Parts, including regulators X	4.5%	Free (A,CA,E,IL,J,27.5%

8411		Turbojets, turbopropellers and other gas turbines, and parts thereof: Turbojets:			
8411.11 8411.11.40	00	Of a thrust not exceeding 25 kN: Aircraft turbines	No	1%	Free (A,C,CA,E,IL, 35%
8411.11.80	00	Other	No	1%	J,MX) Free (A,CA,E,IL,J,35% MX)
8411.12 8411.12.40	00	Of a thrust exceeding 25 kN: Aircraft turbines	No	1%	Free (A,C,CA,E,IL, 35%
8411.12.80	00	Other	No	1%	J,MX) Free (A,CA,E,IL,J,35% MX)
8411.21 8411.21.40	00	Turbopropellers: Of a power not exceeding 1,100 kW: Aircraft turbines	No	1%	Free (A,C,CA,E,IL,35%
8411.21.80	00	Other	No	1%	J,MX) Free (A,CA,E,IL,J,35%
8411.22 8411.22.40	00	Of a power exceeding 1,100 kW: Aircraft turbines	No	1%	MX) Free (A,C,CA,E,IL,35%
8411.22.80	00	Other	No	1%	J,MX) Free (A,CA,E,IL,J,35%
8411.81		Other gas turbines: Of a power not exceeding 5,000 kW:			MX)
8411.81.40	00	Aircraft turbines	No	1%	Free (A,C,CA,E,IL,35% J,MX)
8411.81.80	00	Other	No	3%	Free (A,CA,E,IL,J,35% MX)
8411.82 8411.82.40	00	Of a power exceeding 5,000 kW: Aircraft turbines	No	1%	Free (A,C,CA,E,IL, 35%
8411.82.80	00	Other	No	3%	J,MX) Free (A,CA,E,IL,J,35% MX)
8411.91 8411.91.10	40	Parts: Of turbojets or turbopropellers: Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery Parts of nonaircraft turbines Parts of aircraft turbines:		Free	10%
	60	For use in civil aircraft $\underline{1}/\dots$	kg		
8411.91.90 8411.99	90 40 80	Other Parts of nonaircraft turbines Parts of aircraft turbines Other:	x	Free	35%
8411.99.10	10	Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery Parts of nonaircraft gas turbines		Free	10%
	40	Parts of aircraft gas turbines: For use in civil aircraft 1/	х		
8411.99.90	80	Other		2.4%	Free (A,C,CA,E,IL,35% J,MX)
	30	Parts of nonaircraft gas turbines: Rotors or spindles and rotor or spindle assemblies	No.		
	60 90	Other Parts of aircraft gas turbines			

 $[\]underline{1}/$ See General Note 6.

8412 8412.10.00		Other engines and motors, and parts thereof: Reaction engines other than turbojets		1% <u>1</u> /	Free (A*,B,C,CA,E,35%
	10 90	Missile and rocket engines Other			IL,J,MX)
8412.21.00	15 30	Linear acting (cylinders)	No.	Free	27.5%
	45 60 75	Other: Telescoping Rodless Other	No.		
8412.29 8412.29.40	00	Other: Hydrojet engines for marine propulsion	No	Free	30%
8412.29.80		Other		Free	27.5%
	15 30 45 60 75	Gear type	No. No.		
8412.31.00	40	Pneumatic power engines and motors: Linear acting (cylinders)	No.	Free	27.5%
8412.39.00	80 40 80	OtherOther	No.	Free	27.5%
8412.80 8412.80.10	00	Other engines and motors: Spring-operated and weight-operated motors.		Free	35%
8412.80.90	0.0	Other		Free	27.5%
8412.90		Parts:		1100	27.30
8412.90.10	00	Of hydrojet engines for marine propulsion	X	Free	30%
8412.90.90		Other Of hydraulic power engines and motors:		Free	27.5%
	05	Of linear acting engines and motors	X		
	15	OtherOf pneumatic power engines and motors:	X		
	25	Of linear acting engines and motors	X		
	35	Other	X		
	50	Of reaction engines other than turbojets	Х		
	80	Other	X		

8413		Pumps for liquids, whether or not fitted with a measuring device; liquid elevators; part thereof:					
		Pumps fitted or designed to be fitted with					
8413.11.00	00	a measuring device: Pumps for dispensing fuel or lubricants,					
		of the type used in filling-stations or in garages	No	Free			35%
8413.19.00 8413.20.00	00	Other Hand pumps, other than those of subheading	No	Free			35%
		8413.11 or 8413.19	No	Free			35%
8413.30		Fuel, lubricating or cooling medium pumps for internal combustion piston engines:					
8413.30.10	0.0	Fuel-injection pumps for compression-					
		ignition engines	No	2.5%	Free	(A*,B,C,CA,E, IL,J,MX)	35%
8413.30.90		Other		2.5%	Free	(A,B,C,CA,E, IL,J,MX)	35%
	30	Fuel pumps	No.				
	60	Lubricating pumps	No.				
	90	Other					
8413.40.00	00	Concrete pumps	No	Free			35%
8413.50.00		Other reciprocating positive displacement					
		pumps		Free			35%
	10	Oil well and oil field pumps					
	50	Diaphragm pumps Other:	No.				
		Hydraulic fluid power pumps:					
	70	Radial piston type	No				
	80	Other					
	90	Other					
8413.60.00		Other rotary positive displacement pumps Hydraulic fluid power pumps:		Free			35%
	20	Vane type	No.				
	30	Gear type					
	40	Other					
		Other:					
	50	Oil well and oil field pumps	No.				
	70	Roller pumps	No.				
	90	Other	No.				

8413 (con.)		Pumps for liquids, whether or not fitted with a measuring device; liquid elevators;					
0412 70		part thereof (con.):					
8413.70 8413.70.10	0.0	Other centrifugal pumps: Stock pumps imported for use with ma-					
0113.70.10	0.0	chines for making cellulosic pulp,					
		paper or paperboard	No	Free			35%
8413.70.20		Other		Free			35%
	04	Submersible pumpsOther:	No.				
		Single-stage, single-suction, close-coupled:					
	05	With discharge outlet					
		under 5.08 cm in					
		diameter	No.				
	15	With discharge outlet					
		5.08 cm or over in					
		diameter	No.				
		Single-stage, single-suction, frame-mounted:					
	22	With discharge outlet					
		under 7.6 cm in diameter	No.				
	25	With discharge outlet					
	23	7.6 cm or over in					
		diameter					
	30	Single-stage, double-suction	No.				
	40	Multi-stage, single- or double-suction	No				
	90	Other Other pumps; liquid elevators:	No.				
8413.81.00		Pumps		Free			35%
	20	Turbine pumps	No.				
	30	Household water systems, self- contained; and windmill pumps	No				
		concurred, and windmill pamps	110.				
	40	Other					
8413.82.00	00	Liquid elevators	No	Free			35%
8413.91		Parts: Of pumps:					
8413.91.10	00	Of fuel-injection pumps for					
		compression-ignition engines	X	2.5%	Free	(A,B,C,CA,E,	35%
8413.91.20	0.0	Of stock pumps imported for use				IL,J,MX)	
0413.91.20	00	with machines for making cellulosic					
		pulp, paper or paperboard	х	Free			35%
				_			
8413.91.90	10	Other		Free			35%
	50	Of subheading 8413.30.90 Of hydraulic fluid power	Λ				
	50	pumps	X				
0412 02 02	80	Of limit along		T			250
8413.92.00	00	Of liquid elevators	Α	rree			35%

8414		Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; parts thereof:					
8414.10.00	00	Vacuum pumps	No	2.5%	Free	(A,B,C,CA,E, IL,J,MX)	35%
8414.20.00	00	Hand- or foot-operated air pumps	No	3.7%	Free	(A,B,C,CA,E, IL,J,MX)	35%
8414.30		Compressors of a kind used in refrigerating equipment (including air conditioning):					
8414.30.40 8414.30.80	00	Not exceeding 1/4 horsepower Other Screw type:		Free Free			35% 35%
	10 20	Not exceeding 200 horsepower Exceeding 200 horsepower	No. No.				
		Other: For all refrigerants except ammonia:					
	30	For motor vehicles	No.				
	50	Exceeding 1/4 horsepower but					
		not exceeding 1 horsepower	No.				
	60	Exceeding 1 horsepower but					
		not exceeding 3 horsepower	No.				
	70	Exceeding 3 horsepower but not exceeding					
		10 horsepower	No.				
	90	Exceeding 10 horsepower For ammonia	No.				
8414.40.00	00	Air compressors mounted on a wheeled chassis for towing		2.7%	Free	(A,CA,E,IL,J,	, 35%
		Fans:				PIA)	
8414.51.00		Table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output not					
		exceeding 125 W		4.7%	Free	(A,C,CA,E,IL, J,MX)	, 35%
	30	For permanent installation: Ceiling fans	N-				
	60 90	Other	No.				
8414.59		Other:		Person			250
8414.59.10	0.0	Blowers for pipe organs Other:	No	Free			35%
8414.59.30	00	Turbochargers and superchargers	No	2.3%	Free	(A,B,C,CA,E, IL,J,MX)	35%
8414.59.60		Other		2.3%	Free	(A,B,C,CA,E, IL,J,MX)	35%
	40	Suitable for use with motor vehicles	No.			II, O, PIA,	
		Other:					
	60 90	Centrifugal Axial					
8414.60.00	95 00	Other Hoods having a maximum horizontal side	No.				
		not exceeding 120 cm	No	Free			35%

8414 (con.)		Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not					
8414.80		<pre>fitted with filters; parts thereof (con.): Other, except parts: Air compressors:</pre>					
8414.80.05 8414.80.15	00	Turbochargers and superchargers Other		Free Free			35% 35%
0414.00.13		Stationary:		rice			556
	05	Reciprocating: Not exceeding					
		746 W	No.				
	15	Exceeding 746 W but not exceeding 4.48 kW	No.				
	25	Exceeding 4.48 kW but not exceeding					
		8.21 kW	No.				
	35	Exceeding 8.21 kW					
		but not exceeding 11.19 kW	No.				
	40	Exceeding 11.19 kW					
		but not exceeding 19.4 kW	No.				
	45	Exceeding 19.4 kW					
		but not exceeding 74.6 kW	No.				
	55	Exceeding 74.6 kW	No.				
	60	Rotary: Not exceeding					
	65	11.19 kW Exceeding 11.19 kW	No.				
		but under 22.38 kW	No.				
	70	22.38 kW and over but not exceeding					
		74.6 kW	No.				
	75 80	Exceeding 74.6 kW					
		Portable:	NO.				
	85	Under 0.57 cubic meters per minute	No.				
	90	Other		_			0.50
8414.80.20	05	Other compressors		Free			35%
	15	Other: Centrifugal and axial	No.				
		Other, including reciprocating and rotary:					
	55 65	Not exceeding 186.5 kW Exceeding 186.5 kW but	No.				
		not exceeding 746 kW	No.				
8414.80.90	75 00	Exceeding 746 kW		3 7%	Free	(A,B,C,CA,E,	35%
5111.00.50	0.0	55361		3.,0	1100	IL,J,MX)	550

8414 (con.)		Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; parts thereof (con.):					
8414.90		Parts:					
8414.90.10		Of fans (including blowers) and ventilating or recycling hoods		4.7%	Free	(A,B,C,CA,E, IL,J,MX)	35%
	40	Of fans of subheading 8414.51.00	X			, . ,	
	80	Other Of compressors:	X				
8414.90.30	00	Stators and rotors of goods of					
		subheading 8414.30	No	Free			35%
8414.90.40		Other Of refrigerating and air conditioning compressors:		Free			35%
	20	Compressor housings	No.				
	40	Other					
		Other:					
		Of compressors of subheading 8414.40:					
	45	Compressor housings					
	55	Other:	X				
	65	Compressor housings	No.				
	75	Other					
8414.90.90		Other		Free			35%
	40	Of vacuum pumps					
	80	Other	X				

8415		Air conditioning machines, comprising a motor-driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be			
8415.10.00	40 60	separately regulated; parts thereof: Window or wall types, self-contained Less than 2.93 kW per hour 2.93 kW per hour or greater but less than 4.98 kW per hour	No.	Free	35%
8415.20.00	8 0 0 0	4.98 kW per hour or greater Of a kind used for persons, in motor vehicles		1.4%	Free (A,B,CA,E,IL,35%
8415.81.00		Other, except parts: Incorporating a refrigerating unit and a valve for reversal of the cooling/heat cycle		12	J,MX) Free (A,B,C,CA,E, 35%
	10	Self-contained: Not exceeding 17.58 kW per hour		1.9	IL,J,MX)
8415.82.00	20 30	Exceeding 17.58 kW per hour	No.		
0415.82.00		Other, incorporating a refrigerating unit		2.2%	Free (A,B,C,CA,E, 35% IL,J,MX)
	05	condenser type air conditioners other than year-round units: Not exceeding 17.58 kW per hour	No.		
	10	Exceeding 17.58 kW per hour Year-round units (heating and cooling):	No.		
	15	Not exceeding 17.58 kW per hour	No.		
	20	Exceeding 17.58 kW per hour Room or central station air conditioning units for use with water chillers:	No.		
	30 35 40	Room fan coil units	No.		
	55	With a rated water removal capacity of less than 35 liters over a 24 hour period	No.		
8415.83.00	60 70	Other machines Other air conditioning machines incorporating a refrigerating unit Not incorporating a refrigerating unit	No.	1.4%	Free (A,B,C,CA,E, 35%
		Heat exchangers including condensing units: Condensing units:			IL,J,MX)
	50	Not exceeding 17.58 kW per hour	No.		
	60	Exceeding 17.58 kW per hour			
	70 90	Other Other air conditioning machines not incorporating a refrigerating unit			

8415		Air conditioning machines, comprising a					
(con.)		motor-driven fan and elements for changing the temperature and humidity, including those					
		machines in which the humidity cannot be					
8415.90		separately regulated; parts thereof (con.): Parts:					
8415.90.40	0.0	Chassis, chassis bases and outer					
		cabinets 1	No	1.4%	Free	(A,B,C,CA,E,	35%
8415.90.80		Other		1.4%	Exac	IL,J,MX) (A,B,C,CA,E,	258
0415.90.00		other		1.40	riee	IL,J,MX)	33%
	25	Air conditioning evaporator coils N	No.			, , ,	
	45	Of automotive air					
		conditioners	X				
	65	Of heat pumps	x				
	85	Other					
8416		Furnace burners for liquid fuel, for pulverized					
0410		solid fuel or for gas; mechanical stokers,					
		including their mechanical grates, mechanical					
		<pre>ash dischargers and similar appliances; parts thereof:</pre>					
8416.10.00	00	Furnace burners for liquid fuel	No	Free			27.5%
8416.20.00		Other furnace burners, including combination		_			
	4.0	burners		Free			27.5%
	80	Other 1					
8416.30.00	00	Mechanical stokers, including their					
		mechanical grates, mechanical ash dischargers and similar appliances	x	Free			27.5%
				1100			
8416.90.00	00	Parts	X	Free			27.5%
8417		Industrial or laboratory furnaces and ovens,					
		including incinerators, nonelectric, and parts					
8417.10.00	0.0	thereof: Furnaces and ovens for the roasting,					
0117.10.00	0.0	melting or other heat treatment of ores,					
		pyrites or of metals	No	2.9%	Free	(A,CA,E,IL,J, MX)	45%
						MA)	
8417.20.00	00	Bakery ovens, including biscuit ovens N	No	3.5%	Free	(A,CA,E,IL,J,	45%
8417.80.00	0.0	Other, except parts	No	3.9%	Free	MX) (A,CA,E,IL,J,	45%
0217.00.00	00	other, except pares		J.J0	1166	MX)	100
8417.90.00	00	Parts	X	3.9%	Free	(A,CA,E,IL,J,	45%
						MX)	

8418 8418.10.00	10	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps, other than the air conditioning machines of heading 8415; parts thereof: Combined refrigerator-freezers, fitted with separate external doors		Free		35	5%
	20	Having a refrigerated volume of 184 liters and over but under					
		269 liters	No.				
	30	Having a refrigerated volume of 269 liters and over but under 382 liters	No.				
	40	Having a refrigerated volume of					
	40	382 liters and over	No.				
	90	OtherRefrigerators, household type:	No.				
8418.21.00	10	Compression type Having a refrigerated volume of		Free		35	5%
	10	under 184 liters	No.				
	0.0	***************************************					
	20	Having a refrigerated volume of 184 liters and over but under					
		269 liters	No.				
	30	Having a refrigerated volume of 269 liters and over but under 382 liters	No.				
	90	Having a refrigerated volume of					
0410 22 00	0.0	382 liters and over		1.0.		/a	- 0.
8418.22.00	00	Absorption type, electrical	NO	1%	rree	(A,CA,E,IL,J,35 MX)) 6
8418.29.00	00	Other	No	1.9%	Free	(A,CA,E,IL,J,35 MX)	58
8418.30.00	00	Freezers of the chest type, not exceeding 800 liters capacity	No	Free		•	5%
8418.40.00	00	Freezers of the upright type, not exceeding 900 liters capacity	No	Free		35	5%
8418.50.00	40 80	Other refrigerating or freezing chests, cabinets, display counters, showcases and similar refrigerating or freezing furniture Freezing	No.	Free		35	5%

0.41.0		Difference of the second secon			
8418 (con.)		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat			
		pumps, other than the air conditioning machines			
		of heading 8415; parts thereof (con.): Other refrigerating or freezing equipment;			
		heat pumps:			
8418.61.00		Compression type units whose		_	0 = 0
	40	condensers are heat exchangers Finned coil type		Free	35%
	80	Other			
8418.69.00		Other		Free	35%
	10	Icemaking machines: Self-contained, cube and			
		flake with a capacity not			
		exceeding 227 kg	No.		
	15	Other	No.		
	20	Drinking water coolers, self-			
		contained	No.		
	25	Soda fountain and beer dispensing			
		equipment	No.		
		Centrifugal liquid chilling			
		refrigerating units:			
	45 50	Open-type Hermetic-type	No.		
	55	Absorption liquid chilling units			
	60	Reciprocating liquid chilling			
		refrigerating units	No.		
		Other refrigerating or freezing			
	90	equipment: Household	No		
	95	Other			
		Parts:			
8418.91.00	00	Furniture designed to receive refrigerating or freezing equipment	х	Free	35%
8418.99 8418.99.40	0.0	Other: Door assemblies incorporating more			
0110.55.10	0.0	than one of the following: inner			
		panel; outer panel; insulation;	37	E	250
		hinges; handles	Α	rree	35%
8418.99.80		Other		Free	35%
		Refrigeration condensing units:			
	05	Not exceeding 746 W	No.		
	10	Exceeding 746 W but not exceeding 2.2 kW	Ma		
		exceeding 2.2 kw	NO.		
	15	Exceeding 2.2 kW but not			
		exceeding 7.5 kW	NO.		
	20	Exceeding 7.5 kW but not			
		exceeding 22.3 kW	No.		
	25	Exceeding 22.3 kW	No.		
	F 0	Other:			
	50	Parts of combined refrigerator-freezers			
		fitted with separate			
		external doors and parts of household type			
		refrigerators	X		
	60	-			
	60	Other	Λ		

8419		Machinery, plant or laboratory equipment, whether or not electrically heated, for the					
		treatment of materials by a process involving a					
		change of temperature such as heating, cooking,					
		roasting, distilling, rectifying, sterilizing, pasteurizing, steaming, drying, evaporating,					
		vaporizing, steaming, drying, evaporating, vaporizing, condensing or cooling, other than					
		machinery or plant of a kind used for domestic					
		purposes; instantaneous or storage water					
		heaters, nonelectric; parts thereof:					
		Instantaneous or storage water heaters,					
		nonelectric:					
8419.11.00	00	Instantaneous gas water heaters		Free			45%
8419.19.00		Other		Free			45%
	20	Instantaneous water heaters					
	40	Solar water heaters					
0410 00 00	60	Other					35%
8419.20.00	00	Medical, surgical or laboratory sterilizers Dryers:	NO	Free			358
8419.31.00	00	For agricultural products	No	Free			35%
8419.32		For wood, paper pulp, paper or paper-					
		board:					
8419.32.10	00	For wood		Free			35%
8419.32.50	00	Other		Free			35%
8419.39.00		Other		Free			35%
	40	For food and beverages					
8419.40.00	80	Other		T			35%
8419.40.00	4.0	Distilling or rectifying plant For food and beverages		Free			356
	80	Other					
8419.50	00	Heat exchange units:	NO.				
8419.50.10	0.0	Brazed aluminum plate-fin heat					
0119.50.10	0.0	exchangers	No	4.2%	Free	(A,C,CA,E,IL,	35%
		3				J,MX)	
8419.50.50	00	Other	No	Free			35%
8419.60		Machinery for liquefying air or other gases:					
8419.60.10	00	Machinery containing brazed aluminum					
		plate-fin heat exchangers	No	4.2%	Free	(A,CA,E,IL,	35%
		0.1		_		J,MX)	. = .
8419.60.50	00	Other	No	Free			35%

8419 (con.)		Machinery, plant or laboratory equipment, whether or not electrically heated, for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilizing, pasteurizing, steaming, drying, evaporating, vaporizing, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, nonelectric; parts thereof (con.): Other machinery, plant or equipment:					
8419.81		For making hot drinks or for cooking or heating food:					
8419.81.10	00	Microwave ovens	No	4%	Free	(A,C,CA,E,IL, J,MX)	, 35%
8419.81.50	40	Other cooking stoves, ranges and ovens	No.	Free			35%
8419.81.90	40	OtherOtherOtherOf a type used in restaurants, hotels or similar locations		Free			35%
8419.89	80	Other	No.				
8419.89.10	00	For making paper pulp, paper or paperboard	No	Free			35%
8419.89.60	00	Other: Molten-salt-cooled acrylic acid reactors	No	Free			35%
8419.89.90		Other		4.2%	Free	(A,CA,E,IL, J,MX)	35%
	20	Designed for cooling: For food and beverages	No.				
	40	Other	No.				
	60	Other: For food and beverages	No.				
	80	For rubber and plastics	No.				
	85	For other materials	No.				

 $[\]underline{1}/$ See General Note 6.

8419 (con.)		Machinery, plant or laboratory equipment, whether or not electrically heated, for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilizing, pasteurizing, steaming, drying, evaporating, vaporizing, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, nonelectric; parts thereof (con.):					
8419.90		Parts:					
8419.90.10	00	Of instantaneous or storage water heaters	x	Free			45%
8419.90.20	00	Of machinery and plant for making paper pulp, paper or paperboard	x	Free			35%
8419.90.30	00	Of heat exchange units	х	Free			35%
8419.90.50		Of molten-salt-cooled acrylic acid reactors; of medical,		_			
	40	surgical or laboratory sterilizers Of medical, surgical or laboratory sterilizers		Free			35%
		idboldcory beerlingers	21				
8419.90.80	80	Other		4%	Free	(A,CA,E,IL, J,MX)	35%
	20	Of an apparatus of a type used in restaurants, hotels or similar locations	х			0,1111)	
	80	Other	Х				

8420			other rolling machines, other than glass, and cylinders therefor; parts			
8420.10		Calenderi	ng or other rolling machines:			
8420.10.10	0.0		ile calendering or rolling			
			ines	No	3.5%	Free (A,CA,E,IL,J,40% MX)
8420.10.20	0.0	Cale	endering or similar rolling machines			
0420.10.20	00		making paper pulp, paper or paper-			
			dpaper purp, paper or paper	No	Free	35%
		Dour		110	1100	330
8420.10.90		Othe	er		Free	35%
	40		Calendering or other rolling			
			machines for rubber and plastics	No.		
			-			
	80		Other	No.		
		Parts:				
8420.91		Cyli	nders:			
8420.91.10	00		For textile calendering or rolling			
			machines	No	2.6%	Free (A,CA,E,IL,J,40% MX)
8420.91.20	0.0		For calendering or other rolling			
0420.91.20	00		machines for machines for making			
			paper pulp, paper or paperboard	No	Free	35%
			paper parp, paper or paperboard	110	FICC	33.
8420.91.90	0.0		Other	No	Free	35%
8420.99		Othe				
8420.99.10	00		Of machines for processing			
			textiles	Х	3.5%	Free (A,CA,E,IL,J,40%
						MX)
8420.99.20	00		Of machines for making paper			
			pulp, paper or paperboard	X	Free	35%
			0.1		_	
8420.99.90	00		Other	Х	Free	35%

0.401		Gental Same and all an anatol Same and a					
8421		Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases; parts thereof: Centrifuges, including centrifugal dryers:					
8421.11.00	00	Cream separators	No	Free			25%
8421.12.00 8421.19	00	Clothes-dryersOther:		Free			25%
8421.19.30	00	Spin dryers for semiconductor					
		wafer processing	No	0.5%	Free	(A,CA,E,IL,J MX)	, 25%
8421.19.90	00	Other	No	1.3%	Free	(A,C,CA,E,IL J,MX)	, 25%
		Filtering or purifying machinery and apparatus for liquids:					
8421.21.00 8421.22.00	00	For filtering or purifying water For filtering or purifying beverages	No	Free			35%
0121.22.00	00	other than water	No	Free			35%
8421.23.00	0.0	Oil or fuel filters for internal					
		combustion engines	X	2.5%	Free	(A,B,C,CA,E, IL,J,MX)	35%
8421.29.00	05	Other Refrigerant recovery and		Free		12,0,111,	35%
	03	recycling units	No.				
		Other:					
	15	Oil-separation equipment Other:	No.				
	40	Hydraulic fluid power					
		filters, rated at 1,000 kPa or greater	No.				
	65	Other Filtering or purifying machinery and	No.				
8421.31.00	0.0	apparatus for gases: Intake air filters for internal					
0421.31.00	00	combustion engines	x	2.5%	Free	(A,B,C,CA,E,	35%
		•				IL,J,MX)	
8421.39 8421.39.40	0.0	Other: Catalytic converters	No	Free			35%
8421.39.80	00	Other		Free			35%
		Dust collection and air					
		purification equipment:					
	05	For machine tools of headings 8456 through					
		8465, inclusive	X				
	15	Other	X				
		Industrial gas cleaning					
		equipment:					
	20	Electrostatic	No				
		precipitators	NO.				
	30	Other					
	40	Gas separation equipment	No.				
	60	Other: Pneumatic fluid					
		power filters,					
		rated at					
		550 kPa or greater	NO.				
	90	Other	X				

8421 (con.)		Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases; parts thereof (con.): Parts:		
8421.91		Of centrifuges, including centrifugal dryers:		
8421.91.20	00	Drying chambers for the clothes-dryers of subheading 8421.12 and other parts of clothes-dryers incorporating drying chambers X	Free	25%
8421.91.40	00	Furniture designed to receive the clothes-dryers of subheading 8421.12 X	Free	25%
8421.91.60 8421.99.00	00 40	Other X Other		25% 35%
	80	Other X		

8422		Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labeling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages; parts thereof: Dishwashing machines:				
8422.11.00	00	Of the household type	No	2.4%	Free (A,CA,E,IL,J,	35%
8422.19.00 8422.20.00	00	Other Machinery for cleaning or drying bottles or	No	Free		35%
		other containers	No	Free		35%
8422.30		Machinery for filling, closing, sealing or labeling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; machinery for aerating beverages:				
8422.30.10 8422.30.90	00	Can-sealing machinesOther		Free Free		30% 35%
0422.30.30	10 20	Machines for aerating beverages Labeling machines Other:	No.	FIEC		55.
		Machinery for filling, closing, sealing, capsuling or labeling bottles, cans or similar containers: Machines for filling, whether or not capable of performing other operations:				
	30	Vacuum or gas packaging	No.			
	40	Other Machines which perform only the following operations: capping, lidding, sealing or closing: Vacuum or qas	No.			
	50	packaging	No.			
	60 70	Other				
	80	filling and closing bags	No.			
8422.40 8422.40.10	90	Other Other packing or wrapping machinery (including heat-shrink wrapping machinery): Machines for packaging pipe tobacco; machines for wrapping candy; machines for wrapping cigarette packages; and combination candy cutting and	No.			
	10 90	wrapping machines	No.	Free		35%
8422.40.90	40 80	Other	No.	Free		35%

8422 (con.)		Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labeling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages; parts thereof (con.):			
8422.90		Parts:			
8422.90.02	00	Of dishwashing machines: Water containment chambers for the dishwashing machines of subheading 8422.11 and other parts of dishwashing machines of the household type incorporating water containment			
		chambers	X	Free	35%
8422.90.04	00	Door assemblies for the dishwashing machines of subheading 8422.11	x	Free	35%
8422.90.06	40	Other Of the household type Other	X	Free	35%
8422.90.10 8422.90.20	00	Of can-sealing machines Of machines for packaging pipe tobacco, wrapping candy or wrapping cigarette packages, and of combination candy		Free	30%
		cutting and wrapping machines	х	Free	35%
8422.90.90	20	Other Of machinery for cleaning or drying bottles or other containers		Free	35%
	3 0 6 0	Other: Of strapping machines Of other wrapping and packaging machines			
	95	Other	X		

8423		Weighing machinery (excluding balances of a sensitivity of 5 cg or better), including weight-operated counting or checking machines; weighing machine weights of all kinds; parts of weighing machinery:				
8423.10.00	10	Personal weighing machines, including baby scales; household scales		Free		45%
		Other:	1.0.			
	30	Of a kind suitable for carrying on the person	No.			
	60	Other	No.			
8423.20.00	00	Scales for continuous weighing of goods on	37.	0.00		/a ca E T T 450
		conveyors	NO	2.9%	Free	(A,CA,E,IL,J, 45% MX)
8423.30.00	00	Constant-weight scales and scales for discharging a predetermined weight of material into a bag or container,				
		including hopper scales	No	Free		45%
8423.81.00		Other weighing machinery: Having a maximum weighing capacity not				
		exceeding 30 kg Digital electronic type:		Free		45%
	10	Counting scales	No.			
	20	Retail scales, non-computing				
	3 0 4 0	Retail scales, computing Other				
	50	Other				
8423.82.00		Having a maximum weighing capacity exceeding 30 kg but not exceeding				
		5,000 kg		Free		45%
	10 50	Digital electronic type Other				
8423.89.00	50	Other		2.9%	Free	(A,CA,E,IL,J,45% MX)
	10 50	Digital electronic type				
8423.90.00	50	Other Weighing machine weights of all kinds; parts	NO.			
		of weighing machinery		2.8%	Free	(A,CA,E,IL,J,45% MX)
	40 80	Digital weight indicatorsOther				
	00	Ocher	Λ			

8424		Mechanical appliances (whether or not hand operated) for projecting, dispersing or spraying liquids or powders; fire extinguishers, whether or not charged; spray guns and similar appliances; steam or sand blasting machines and similar jet projecting machines; parts thereof:					
8424.10.00 8424.20 8424.20.10	00	Fire extinguishers, whether or not charged Spray guns and similar appliances: Simple piston pump sprays and powder	No	Free			35%
0424.20.10	00	bellows	х	2.9%	Free	(A,B,CA,E,IL, J,MX)	45%
8424.20.90 8424.30	00	OtherSteam or sand blasting machines and similar jet projecting machines:	х	Free		,	35%
8424.30.10 8424.30.90	00	Sand blasting machines Other Other appliances:		Free Free			Free 35%
8424.81 8424.81.10	00	Agricultural or horticultural: Sprayers (except sprayers, self-contained, having a capacity	77	To the second			
		not over 20 liters)		Free			Free
8424.81.90		Other		2.4%	Free	(A,CA,E,IL,J, MX)	35%
	10	Irrigation equipment: Self-propelled, center pivot	No.				
	20	Other:	No.				
	40	Sprayers, self-contained, having a capacity not over 20 liters	No.				
	90	Other	No.				
8424.89 8424.89.30	00	Other: Spraying appliances for etching, stripping or cleaning semiconductor					
		wafers	No	Free			35%
8424.89.50	00	Spraying appliances for developing semiconductor wafers; spraying appliances for etching, developing, stripping or cleaning flat panel displays; deflash machines for cleaning and removing contaminants from the metal leads of semiconductor packages prior to the electroplating process (deflash					
		by high pressure spray)	No	0.7%	Free	(A,CA,E,IL,J, MX)	35%
8424.89.70		Other		1.8%	Free	(A,B,CA,E,IL, J,MX)	35%
	10	Sprinkler systems (fire extinguishing equipment)	No.				
	90	Other	No.				

8424 (con.)		Mechanical appliances (whether or not hand operated) for projecting, dispersing or spraying liquids or powders; fire extinguishers, whether or not charged; spray guns and similar appliances; steam or sand blasting machines and similar jet projecting machines; parts thereof (con.):					
8424.90 8424.90.05	0.0	Parts: Of fire extinguishers	v	Erroo			35%
8424.90.10	00	Of simple piston pump sprays and powder	Δ	Free			33%
		bellows		2.9%	Free	(A,B,CA,E,IL, J,MX)	45%
8424.90.20 8424.90.90	00	Of sand blasting machines		Free Free			Free
6424.90.90	4.0	Of steam and similar jet		riee			33%
		projecting machines					
	80	Other	X				
8425		Pulley tackle and hoists other than skip hoists; winches and capstans; jacks: Pulley tackle and hoists other than skip hoists or hoists of a kind used for raising yehicles:					
8425.11.00	00	Powered by electric motor		Free			35%
8425.19.00 8425.20.00	00	Other Pit-head winding gear; winches specially	No	Free			35%
0123.20.00	00	designed for use underground	No	Free			35%
		Other winches; capstans:		_			
8425.31.00 8425.39.00	00	Powered by electric motor Other		Free Free			35% 35%
0423.39.00	00	Jacks; hoists of a kind used for raising vehicles:	NO	riec			33%
8425.41.00	00	Built-in jacking systems of a type used in garages	No	Free			35%
8425.42.00	0.0	Other jacks and hoists, hydraulic	No	Erroo			35%
8425.42.00	00	Other Jacks and noists, nydraulic		Free Free			35% 35%

8426		Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane: Overhead traveling cranes, transporter cranes, gantry cranes, bridge cranes, mobile lifting frames and straddle carriers:			
8426.11.00	00	Overhead traveling cranes on fixed support	No	Free	35%
8426.12.00	0.0	Mobile lifting frames on tires and			
		straddle carriers	No	Free	35%
8426.19.00	00	Other	No	Free	35%
8426.20.00	00	Tower cranes	No	Free	35%
8426.30.00	00	Portal or pedestal jib cranes	No	Free	35%
		Other machinery, self-propelled:			
8426.41.00		On tires		Free	35%
	05	Works trucks fitted with a crane Other:	No.		
	10	Cable operated	No.		
	90	Other	No.		
8426.49.00		Other		Free	35%
	10	Cable operated	No.		
	90	Other			
		Other machinery:			
8426.91.00	00	Designed for mounting on road vehicles	No	Free	35%
8426.99.00	00	Other		Free	35%
8427		Fork-lift trucks; other works trucks fitted with			
		lifting or handling equipment:			
8427.10		Self-propelled trucks powered by an			
		electric motor:			
8427.10.40	00	Rider-type, counterbalanced fork-lift			
		trucks	No	Free	35%
8427.10.80		Other		Free	35%
0127.10.00	10	Operator riding		1100	550
	60	Automated quided vehicle (AGV)			
	90	Other			
8427.20	50	Other self-propelled trucks:	1.0.		
8427.20.40	0.0	Rider-type, counterbalanced fork-lift			
		trucks	No	Free	35%
8427.20.80	0.0	Other	No	Froo	35%
	0.0	Other trucks		Free	35%
8427.90.00	0.0	Other trucks	NO	Free	356

8428		Other lifting, handling, loading or unloading machinery (for example, elevators, escalators,			
		conveyors, teleferics):			
8428.10.00	00	Passenger or freight elevators other than			
		continuous action; skip hoists	No	Free	35%
8428.20.00		Pneumatic elevators and conveyors		Free	35%
	10	Conveyors			
	50	Elevators	No.		
		Other continuous-action elevators and			
		conveyors, for goods or materials:			
8428.31.00	00	Specially designed for underground use		Free	35%
8428.32.00	00	Other, bucket type		Free	35%
8428.33.00	00	Other, belt type		Free	35%
8428.39.00	00	Other		Free	35%
8428.40.00	00	Escalators and moving walkways	No	Free	35%
8428.50.00	00	Mine wagon pushers, locomotive or wagon			
		traversers, wagon tippers and similar			
		railway wagon handling equipment	No	Free	35%
8428.60.00	0.0	Teleferics, chair lifts, ski draglines;			
0120.00.00	00	traction mechanisms for funiculars	No	Free	35%
		CIACCION MCCHANIDMD IOI IAMICAIAIDH		1100	550
8428.90.00		Other machinery		Free	35%
	02	Of a kind used in charging or			
		discharging furnaces	No.		
	04	Of a kind used for radioactive			
		materials	No.		
	0.0	77 - 33 - 3 3 - 1 - 33 / / /			
	06	Woodland log handling equipment	37 -		
		(other than skidders)	NO.		
		Other:			
	10	Industrial robots	No.		
	20	Oil and gas field machinery			
	3.0	Sidebooms and pipehandlers			
	40	Loaders, underground mine			
		type	No.		
		2E			
	90	Other	No.		

8429		Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators,			
		shovel loaders, tamping machines and road rollers: Bulldozers and angledozers:			
8429.11.00	10	Track laying	No.	Free	35%
8429.19.00	90	Used or rebuiltOther		Free	35%
	10 90	New Used or rebuilt	No.		
8429.20.00 8429.30.00	00	Graders and levelers Scrapers New:		Free Free	35% 35%
	20	Not exceeding 13.7 m ³ Exceeding 13.7 m ³	No.		
8429.40.00	60	Used or rebuilt		Free	35%
	20 40 60	VibratoryOtherUsed or rebuilt	No.		
	00	Mechanical shovels, excavators and shovel loaders:	110.		
8429.51 8429.51.10		Front-end shovel loaders: Wheel-type New:		Free	35%
		Integral tractor shovel loaders, rear engine mounted:			
	05	2 wheel drive 4 wheel drive with a bucket capacity	No.		
	15	of: Under 1.5 m³	No.		
	25	At least 1.5 m³ but			
		under 2.2 m ³	No.		
	30	At least $2.2~\text{m}^3$ but under $2.9~\text{m}^3\dots$	No.		
	35	At least 2.9 m³ but			
		under 3.8 m ³	No.		
	40	At least 3.8 m^3 but under 5.2 m^3	No.		
	45	At least $5.2~\text{m}^3$ but under 7.6 $\text{m}^3\dots$	No.		
	50	At least 7.6 m^3 but under 11.4 m^3	No.		
	55	11.4 m³ and over	No.		
	60 65	OtherUsed or rebuilt	No.		

8429		Self-propelled bulldozers, angledozers, graders,			
(con.)		levelers, scrapers, mechanical shovels,			
		excavators, shovel loaders, tamping machines			
		and road rollers (con.): Mechanical shovels, excavators and shovel			
		loaders (con.):			
8429.51		Front-end shovel loaders (con.):			
(con.)					
8429.51.50		Other New:		Free	35%
	10	Less than 44.7 kW	No.		
	20	At least 44.7 kW but			
		under 67.1 kW	No.		
	3.0	At least 67.1 kW but			
		under 93.2 kW	No.		
	40	At least 93.2 kW but			
		under 119.3 kW	No.		
	50	119.3 kW and over	No.		
	60	Used or rebuilt			
8429.52		Machinery with a 360° revolving			
=		superstructure:			
8429.52.10		Backhoes, shovels, clamshells and draglines		Free	35%
		New:		1166	33%
		Crawler mounted:			
	10	Hydraulic			
	20	Other	No.		
	3.0	Other: Hydraulic	No		
	40	Other			
	50	Used or rebuilt	No.		
8429.52.50		Other		Free	35%
	10	New			
8429.59	90	Used or rebuilt	No.		
8429.59.10		Backhoes, shovels, clamshells and			
0129.39.10		draglines		Free	35%
		New:			
	30	Backhoes			
	60	Other			
8429.59.50	90	Used or rebuilt		Free	35%
0425.55.50		New:		riec	55%
		Ditchers and trenchers:			
	20	Ladder type			
	40	Other			
	60 80	Other Used or rebuilt			
	00	OSEG OI TEDUTIC	110.		

8430		Other moving, grading, leveling, scraping, excavating, tamping, compacting, extracting			
		or boring machinery, for earth, minerals or ores; pile-drivers and pile-extractors;			
		snowplows and snowblowers:			
8430.10.00	0.0	Pile-drivers and pile-extractors	No	Free	35%
8430.20.00		Snowplows and snowblowers		Free	35%
		Snowblowers:			
	30	Attachment type			
	60	Other			
	90	Other	No.		
		Coal or rock cutters and tunneling machinery:		_	0 = 0
8430.31.00		Self-propelled		Free	35%
	40	Rock breaking machines			
0420 20 00	80	Other		To a second	35%
8430.39.00	40	Other		Free	356
	80	Rock breaking machines			
	00	Other Other boring or sinking machinery:	NO.		
8430.41.00	0.0	Self-propelled	No	Free	35%
8430.41.00	00	Other:	NO	riee	33%
8430.49.40	0.0	Offshore oil and natural gas			
0150.15.10	00	drilling and production platforms	ka	Free	45%
		driffing and production practorms	g	1166	150
8430.49.80		Other		Free	35%
		For oil well and gas field			
		drilling:			
	10	Rotary	No.		
	20	Other	No.		
		For water well drilling:			
	30	Rotary			
	40	Other			
	50	Other	No.		
8430.50		Other machinery, self-propelled:			
8430.50.10	00	Peat excavators		Free	35%
8430.50.50	00	Other	No	Free	35%
		Other machinery, not self-propelled:		_	0 = 0
8430.61.00	00	Tamping or compacting machinery		Free	35%
8430.62.00	00	Scrapers		Free	35%
8430.69.00	00	Other	NO	Free	35%

8431 8431.10.00	10	Parts suitable for use solely or principally with the machinery of headings 8425 to 8430: Of machinery of heading 8425 Of machinery of subheading 8425.11 or 8425.19		Free	35%
8431.20.00	90 00	Other Of machinery of heading 8427 Of machinery of heading 8428:		Free	35%
8431.31.00	20 40	Of passenger or freight elevators other than continuous action, skip hoists or escalators	X	Free	35%
8431.39.00	60 10	OtherOtherOtherOtherOf elevators and conveyorsOther:		Free	35%
	50	Of oil and gas field machinery	x		
	70	Of the woodland log handling equipment of statistical reporting number 8428.90.8006	х		
8431.41.00	80	Other		Free	35%
	20 40 60	Shovel attachments	No. No.		
8431.42.00	80 00	Other Bulldozer or angledozer blades		Free	35%

8431 (con.)		Parts suitable for use solely or principally with the machinery of headings 8425 to 8430 (con.): Of machinery of heading 8426, 8429 or 8430 (con.):			
8431.43		Parts for boring or sinking machinery of subheading 8430.41 or 8430.49:			
8431.43.40	00	Of offshore oil and natural gas drilling and productions platforms	X	Free	45%
8431.43.80	10	Other Of oil and gas field machinery		Free	35%
8431.49	90	Of other boring or sinking machinery	X		
8431.49.10	10	Of machinery of heading 8426 Of machinery of subheadings 8426.11, 8426.19 and 8426.30		Free	35%
	60	Of mobile lifting frames, straddle carriers and works trucks fitted with a crane	х		
8431.49.90	90	Other		Free	35%
0431.49.50		Attachments for mounting on machinery:		ricc	33.6
	05 10	Backhoe attachments Front-end loader			
		attachments	No.		
	15 20	Rippers and rooters Other			
		Other: Parts of coal or rock cutters and tunneling machinery:			
	25 30	Cast axle housings Other			
	30	Parts of backhoes, shovels, clamshells and draglines:	Λ		
	35 40	Cast axle housings Other			
	45	Other: Scraper bowls for			
	40	scrapers of sub- scrapers of sub- headings 8429.30 and 8430.62	No.		
	50 55	Track links Cast axle housings			
	60	Other			

8432		Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or				
		sports ground rollers; parts thereof:				
8432.10.00		Plows		Free	Fr	cee
	20	Moldboard plows except listers				
	40	Disc plows				
	60	Other	No.			
		Harrows, scarifiers, cultivators, weeders				
		and hoes:		_	_	
8432.21.00	00	Disc harrows		Free		ree
8432.29.00		Other		Free	Fi	ree
		Cultivators, weeders and hoes:				
	40	Cultivators, tractor drawn				
		or for tractor mounting	No.			
	60	Walk behind rotary tillers	No.			
	80	Other				
	90	Other	No.			
8432.30.00		Seeders, planters and transplanters		Free	Fr	ree
	10	Planters and transplanters	No.			
	90	Seeders				
8432.40.00	00	Manure spreaders and fertilizer distributors	No	Free	Fr	cee
8432.80.00	00	Other machinery	No	Free	Fr	cee
8432.90.00		Parts		Free	Fr	ree
	05	Of plows	X			
	15	Of harrows, scarifiers, cultivators,				
		weeders and hoes	X			
	30	Of seeders, planters, transplanters,				
	5 0	manure spreaders and fertilizer				
		distributors	X			
	80	Of other machinery	X			

8433 8433.11.00	10	Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading 8437; parts thereof: Mowers for lawns, parks or sports grounds: Powered, with the cutting device rotating in a horizontal plane Electric mowers, including battery operated		Free	30%
		Riding mowers, other than	1.0.		
	20 30	electric: Under 5.2 kW 5.2 kW and over but under 7.46 kW			
	4.0	7.46 kW and over	N		
	40	Other:	NO.		
	50 60	Under 3.7 kW			
8433.19.00		Other		Free	30%
	10	Greens mowers			
	20 30	Gang cutting units Other riding mowers			
		Other:			
	40 50	Gasoline powered			
8433.20.00	50	OtherOther mowers, including cutter bars for	NO.		
		tractor mounting Tractor drawn or for tractor mounting:		Free	Free
	20	Rotary cutter type	No.		
	40	Other	No.		
0422 20 00	60	Other		Total o	T
8433.30.00 8433.40.00	00	Other haymaking machineryStraw or fodder balers, including pick-up	NO	Free	Free
		balers	No	Free	Free
		Other harvesting machinery; threshing			
		machinery:			
8433.51.00	1.0	Combine harvester-threshers		Free	Free
	10 90	Self-propelled Other			
8433.52.00	00	Other threshing machinery		Free	Free
8433.53.00	00	Root or tuber harvesting machines		Free	Free
8433.59.00		Other		Free	Free
	10 90	Field forage harvesters			
8433.60.00	90	Other Machines for cleaning, sorting or grading	NO.		
		eggs, fruit or other agricultural produce		Free	Free
	10	Machines for cleaning, sorting or			
		grading eggs	No.		
	90	Other	No.		
8433.90	0.0	Parts:			
8433.90.10	00	Of mowers for lawns, parks or sports grounds	x	Free	30%
		5			
8433.90.50		OtherOf other mowers, harvesting machines and threshing machines:		Free	Free
	20	Of haying machines and balers			
	40	Other	X		
	60	Of machines for cleaning, sorting or grading eggs	X		
	80	Of machines for cleaning, sorting			
		or grading fruit or other agricultural produce	x		
		.J <u></u>			

8434		Milking machines and dairy machinery, and parts			
8434.10.00	0.0	thereof: Milking machines	No	Free	Free
8434.10.00 8434.20.00 8434.90.00	00	Dairy machinery.	No		Free Free
8435		Presses, crushers and similar machinery, used in the manufacture of wine, cider, fruit juices or similar beverages; parts thereof:			
8435.10.00 8435.90.00	0 0 0 0	MachineryParts		Free Free	40% 40%
8436		Other agricultural, horticultural, forestry, poultry-keeping or bee-keeping machinery, including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders; parts thereof:			
8436.10.00	00	Machinery for preparing animal feeds	No	Free	Free
		Poultry-keeping machinery; poultry incubators and brooders:			
8436.21.00 8436.29.00	00	Poultry incubators and brooders		Free Free	Free Free
8436.80.00		Other machinery		Free	Free
	20	Forestry machineryOther:	No.		
	40 60	Barn and barnyard machines Machines for preparing crops for market or for use			
		Other:			
	70	Bee-keeping machinery	No.		
	90	Other	No.		
8436.91.00		Of poultry-keeping machinery or poultry incubators and brooders		Free	Free
	40 80	Of poultry incubators and brooders	X	1100	1100
8436.99.00	20	Other		Free	Free
	20 30	Of forestry machinery Of bee-keeping machinery			
	35	Of machinery for preparing animal feeds	x		
		Other:			
	40	Of barn or barnyard machines	X		
	70	Of machines for preparing crops for market or for			
		use	X		
	90	Other	X		
8437		Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables, and parts thereof; machinery used in the milling industry or for the working of cereals or dried leguminous vegetables, other than farm type machinery; parts thereof:			
8437.10.00	00	Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables	No	Free	35%
8437.80.00		Other machinery		Free	35%
	10 90	Flour mill and grain mill machines			
8437.90.00		Parts		Free	35%
	10 90	Of flour mill or grain mill machines Other			

8438 8438.10.00		Machinery, not specified or included elsewhere in this chapter, for the industrial preparation or manufacture of food or drink, other than machinery for the extraction or preparation of animal or fixed vegetable fats or oils; parts thereof: Bakery machinery and machinery for the					
8438.20.00	10 90 00	manufacture of macaroni, spaghetti or similar products Bakery machinery Other Machinery for the manufacture of confectionery, cocoa or chocolate	No. No.	Free			35%
8438.30.00 8438.40.00	00	Machinery for sugar manufacture Brewery machinery		Free 2.3%	Free	(A,CA,E,IL,J,	Free 35%
8438.50.00		Machinery for the preparation of meat or poultry		2.8%	Free	MX) (A,CA,E,IL,J,	35%
	10	Meat- and poultry-packing plant	No.			MX)	
	90	Other	No.				
8438.60.00	00	Machinery for the preparation of fruits, nuts or vegetables	No	Free			35%
8438.80.00 8438.90	00	Other machinery Parts:	No	Free			40%
8438.90.10 8438.90.90	00	Of machinery for sugar manufacture Other		Free 2.8%	Free	(A,CA,E,IL,J,	Free 35%
	15	Of bakery machinery and machinery for the manufacture of macaroni, spaghetti or similar products	X			,	
	30	Of machinery for the manufacture of confectionery, cocoa or chocolate	Х				
	60	Of machinery for the preparation of meat or poultry	X				
	90	Other	X				
8439		Machinery for making pulp of fibrous cellulosic material or for making or finishing paper or paperboard (other than the machinery of heading 8419); parts thereof:					
8439.10.00	10	Machinery for making pulp of fibrous cellulosic material		Free			35%
8439.20.00	90	Used or rebuilt	No.	Free			35%
8439.30.00	90	Used or rebuilt Machinery for finishing paper or paperboard Parts:	No.	Free			35%
8439.91		Of machinery for making pulp of fibrous					
8439.91.10	00	cellulosic materials: Bed plates, roll bars and other stock-treating parts	X	Free			20%
8439.91.90	00	Other	х	Free			35%
8439.99 8439.99.10	00	Other:					
U≒32.33.1U	00	Of machinery for making paper or paperboard	х	Free			35%
8439.99.50	00	Of machinery for finishing paper or paperboard	х	Free			35%

8440		Bookbinding machinery, including book-sewing				
8440.10.00	00	machines, and parts thereof: Machinery	No	Free		25%
8440.90.00	00	Parts		Free		25%
8441		Other machinery for making up paper pulp, paper or paperboard, including cutting machines of all kinds, and parts thereof:				
8441.10.00 8441.20.00	00	Cutting machines		Free Free		35% 35%
8441.30.00	00	Machines for making cartons, boxes, cases, tubes, drums or similar containers, other				
		than by molding	No	Free		35%
8441.40.00	00	Machines for molding articles in paper pulp, paper or paperboard	No	Free		35%
8441.80.00	00	Other machinery		Free		35%
8441.90.00	00	Parts	X	Free		35%
8442		Machinery, apparatus and equipment (other than the machine tools of headings 8456 to 8465), for type-founding or typesetting, for preparing or making printing blocks, plates, cylinders or other printing components; printing type, blocks, plates, cylinders and other printing components; blocks, plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished); parts thereof:				
8442.10.00 8442.20.00	00	Phototypesetting and composing machines Machinery, apparatus and equipment for typesetting or composing by other		Free		Free
		processes, with or without founding device	No	Free		Free
8442.30.00 8442.40.00	00	Other machinery, apparatus and equipment Parts of the foregoing machinery, apparatus		Free		Free
		or equipment	X	Free		Free
8442.50		Printing type, blocks, plates, cylinders and other printing components; blocks, plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished):				
8442.50.10	10	Plates Planed, grained, polished or otherwise prepared for engraving or impressing		Free		25%
	90	Other	No			
8442.50.90	20	Other		4%	Free (A,CA,E,IL,J	, 60%
	10	Planed, grained, polished or otherwise prepared for engraving or impressing	No.		MX)	
	90	Other	No.			

8443		Printing machinery, including ink-jet printing machines, other than those of heading 8471; machines for uses ancillary to printing; parts thereof:					
8443.11		Offset printing machinery: Reel-fed:					
8443.11.10	0.0	Double-width newspaper printing					
0113.11.10		presses	No	3.3%	Free	(A,CA,E,IL, J,MX)	25%
8443.11.50 8443.12.00	00	OtherSheet-fed, office type (sheet	No	Free		-,,	25%
0113.12.00	00	size not exceeding 22 x 36 cm)	No	Free			25%
8443.19		Other:					
8443.19.10 8443.19.50	00	Weighing 900 kg or less	No	Free			25%
0113.13.30	00	than 1,600 kg	No	Free			25%
8443.19.90	00	Weighing 1,600 kg or more Letterpress printing machinery, excluding flexographic printing:	No	Free			25%
8443.21.00	00	Reel-fed	No	2.2%	Free	(A,CA,E,IL,J, MX)	25%
8443.29.00	00	Other	No	Free		,	25%
8443.30.00	00	Flexographic printing machinery	No	2.2%	Free	(A,CA,E,IL,J, MX)	25%
8443.40.00	00	Gravure printing machinery	No	2.2%	Free	(A,CA,E,IL,J, MX)	25%
		Other printing machinery:					
8443.51		Ink-jet printing machinery:		/	_		
8443.51.10	00	Textile printing machinery		2.6% <u>1</u> /	Free	(A,CA,E,IL, J,MX)	40%
8443.51.50	00	Other:	X	Free			25%
8443.59 8443.59.10	0.0	Textile printing machinery	Y	2.6% 2/	Free	(A,CA,E,IL,	40%
0443.33.10	00	reactive princing machinery	Α	2.00 <u>2</u> /	FICC	J,MX)	100
8443.59.50	00	Other		Free			25%
8443.60.00	00	Machines for uses ancillary to printing Parts:	х	Free			25%
8443.90 8443.90.10	00	Parts: Of textile printing machinery	х	2.6%	Free	(A,CA,E,IL,J,	40%
		<u> </u>				MX)	
8443.90.50	0 0	Other	X	Free			25%

 $[\]underline{1}$ / See subheading 9902.84.43. $\underline{2}$ / See subheading 9902.84.20.

8444.00.00	10 90	Machines for extruding, drawing, texturing or cutting man-made textile materials	No.	Free			40%
8445		Machines for preparing textile fibers; spinning, doubling or twisting machines and other machinery for producing textile yarns; textile reeling or winding (including weft winding) machines and machines for preparing textile yarns for use on the machines of heading 8446 or 8447: Machines for preparing textile fibers:					
8445.11.00	00	Carding machines	No	Free			40%
8445.12.00	00	Combing machines		Free			40%
8445.13.00 8445.19.00	00	Drawing or roving machines		Free 3.3%		/a	40%
8445.19.00		other		3.36	Free	(A,CA,E,IL,J, MX)	406
	40	Cotton gins	No.			/	
	80	Other					
8445.20.00	00	Textile spinning machines		Free			40%
8445.30.00	10	Textile doubling or twisting machines Textile twisting machines		Free			40%
	90	Other					
8445.40.00	00	Textile winding (including weft winding) or					
		reeling machines	No	3.7%	Free	(A,CA,E,IL,J,	. 40%
8445.90.00	00	Other	No	3.7%	Free	MX) (A,CA,E,IL,J, MX)	40%
						,	
8446 8446.10.00		Weaving machines (looms): For weaving fabrics of a width not exceeding				,	
8446 8446.10.00		Weaving machines (looms): For weaving fabrics of a width not exceeding 30 cm		Free		,	40%
	10	For weaving fabrics of a width not exceeding 30 cm	No.	Free			40%
	10 90	For weaving fabrics of a width not exceeding 30 cm	No.	Free		,	40%
		For weaving fabrics of a width not exceeding 30 cm	No.	Free			40%
		For weaving fabrics of a width not exceeding 30 cm	No.	Free			40%
8446.10.00		For weaving fabrics of a width not exceeding 30 cm	No. No.				
8446.10.00 8446.21	90	For weaving fabrics of a width not exceeding 30 cm	No. No.	Free			40%
8446.10.00 8446.21	90	For weaving fabrics of a width not exceeding 30 cm	No.	Free	Free		
8446.21 8446.21 8446.21.10	00	For weaving fabrics of a width not exceeding 30 cm	No	Free 3.7% <u>1</u> /	Free	(A,CA,E,IL, J,MX)	40%
8446.21 8446.21.10 8446.21.50 8446.29.00	90	For weaving fabrics of a width not exceeding 30 cm	No	Free	Free	(A,CA,E,IL,	40%
8446.21 8446.21 8446.21.10	00	For weaving fabrics of a width not exceeding 30 cm	No	Free 3.7% <u>1</u> /	Free	(A,CA,E,IL,	40%
8446.21 8446.21.10 8446.21.50 8446.29.00	00	For weaving fabrics of a width not exceeding 30 cm	No	Free 3.7% <u>1</u> /	Free	(A,CA,E,IL,	40%
8446.21 8446.21.10 8446.21.50 8446.29.00 8446.30	00	For weaving fabrics of a width not exceeding 30 cm	No	Free 3.7% <u>1</u> /	Free	(A,CA,E,IL,	40%
8446.21 8446.21.10 8446.21.50 8446.29.00 8446.30	90 00 00 00	For weaving fabrics of a width not exceeding 30 cm	No.	Free 3.7% <u>1</u> / Free	Free	(A,CA,E,IL,	40% 40% 40%
8446.21 8446.21.10 8446.21.50 8446.29.00 8446.30	90 00 00 00	For weaving fabrics of a width not exceeding 30 cm	No.	Free 3.7% <u>1</u> / Free	Free	(A,CA,E,IL,	40% 40% 40%
8446.21 8446.21.10 8446.21.50 8446.29.00 8446.30	90 00 00 00	For weaving fabrics of a width not exceeding 30 cm	No.	Free 3.7% <u>1</u> / Free Free		(A,CA,E,IL, J,MX)	40% 40% 40%
8446.21 8446.21.10 8446.21.50 8446.29.00 8446.30	90 00 00 00	For weaving fabrics of a width not exceeding 30 cm	No.	Free 3.7% <u>1</u> / Free Free		(A,CA,E,IL,	40% 40% 40%
8446.21 8446.21.10 8446.21.50 8446.29.00 8446.30	90 00 00 00 10 20 30	For weaving fabrics of a width not exceeding 30 cm	No.	Free 3.7% <u>1</u> / Free Free		(A,CA,E,IL, J,MX)	40% 40% 40%
8446.21 8446.21.10 8446.21.50 8446.29.00 8446.30	90 00 00 00	For weaving fabrics of a width not exceeding 30 cm	No.	Free 3.7% <u>1</u> / Free Free		(A,CA,E,IL, J,MX)	40% 40% 40%

 $[\]underline{1}$ / See subheading 9902.84.10. $\underline{2}$ / See subheading 9902.84.46.

8447		Knitting machines, stitch-bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting: Circular knitting machines:					
8447.11		With cylinder diameter not exceeding 165 mm:					
8447.11.10	0.0		NT-	Free			40%
	0.0	For knitting hosiery					40%
8447.11.90		Other		Free			40%
	10	Open-top cylinder machines					
	20	Cylinder and dial machines					
	90	Other	No.				
8447.12		With cylinder diameter exceeding 165 mm:					
8447.12.10	00	For knitting hosiery		Free			40%
8447.12.90		Other		Free			40%
	10	Open-top cylinder machines					
	20	Cylinder and dial machines	No.				
	90	Other	No.				
8447.20		Flat knitting machines; stitch-bonding					
		machines:					
		V-bed flat knitting machines:					
8447.20.20	00	Power driven flat knitting					
		machines over 50.8 cm in width	No	Free			40%
8447.20.30	0.0	Other	No	2.6%	Free	(A,CA,E,IL,	40%
						J.MX)	
8447.20.40	0.0	Warp knitting machines	No	Free		- / /	40%
8447.20.60	0.0	Other		Free			40%
8447.90	- 0	Other:					_ 0 0
8447.90.10	0.0	Braiding and lace-braiding machines	No	Free			40%
8447.90.50	0.0	Embroidery machines		Free			30%
8447.90.90	0.0	Other		Free			40%
0441.30.30	0.0	Ochici	140	1166			±0.0

8448		Auxiliary machinery for use with machines of heading 8444, 8445, 8446 or 8447 (for example, dobbies, Jacquards, automatic stop motions and shuttle changing mechanisms); parts and accessories suitable for use solely or principally with the machines of this heading or of heading 8444, 8445, 8446 or 8447 (for example, spindles and spindle flyers, card clothing, combs, extruding nipples, shuttles, healds and heald-frames, hosiery needles): Auxiliary machinery for machines of heading 8444, 8445, 8446 or 8447:					
8448.11.00	00	Dobbies and Jacquards; card reducing, copying, punching or assembling machines for use therewith	x	Free		40) 왕
8448.19.00 8448.20	00	Other Parts and accessories of machines of heading 8444 or of their auxiliary machinery:	X	Free		40)왕
8448.20.10	00	Of machines for extruding or drawing man-made textile filaments	х	3.7%	Free	(A,CA,E,IL,J,40) 응
8448.20.50		Other		3.3%	Free	MX) (A,CA,E,IL,J,40 MX)) 응
	10 90	Of texturing machines				III)	
8448.31.00	00	Card clothing	$\mathfrak{m}^2\ldots\ldots$	3.3%	Free	(A,CA,E,IL,J,45 MX)	58
8448.32.00 8448.33.00	10 90 00	Of machines for preparing textile fibers, other than card clothing Of cotton gins Other	X	Free		40)응
		and ring travellers	X	3.3%	Free	(A,CA,E,IL,J,40 MX)) 응
8448.39 8448.39.10	00	Other: Parts of spinning, doubling or twisting machines	x	Free		40)%
8448.39.50	00	Parts of winding or reeling machines	х	3.7%	Free	(A,CA,E,IL,J,40)왕
8448.39.90	00	Other Parts and accessories of weaving machines (looms) or of their auxiliary machinery:	X	Free		MX))왕
8448.41.00	00	Shuttles	х	3.7%	Free	(A,CA,E,IL,J,	
8448.42.00	00	Reeds for looms, healds and heald-				MX)	
		frames		3.7%	Free	(A,CA,E,IL,J,40 MX)	
8448.49.00	00	Other	Х	Free		40) 응

8448 (con.)		Auxiliary machinery for use with machines of heading 8444, 8445, 8446 or 8447 (for example, dobbies, Jacquards, automatic stop motions and shuttle changing mechanisms); parts and accessories suitable for use solely or principally with the machines of this heading or of heading 8444, 8445, 8446 or 8447 (for example, spindles and spindle flyers, card clothing, combs, extruding nipples, shuttles, healds and heald-frames, hosiery needles) (con.): Parts and accessories of machines of heading 8447 or of their auxiliary machinery:					
8448.51		Sinkers, needles and other articles used in forming stitches: Needles for knitting machines:					
8448.51.10	00	Latch needles	thousand	Free			\$2/1,000 + 60%
8448.51.20	00	Spring-beard needles	thousand	Free			\$1.50/ 1,000 + 50%
8448.51.30	00	Other	thousand	Free			\$1.15/ 1,000 + 40%
8448.51.50 8448.59	00	Other:Other:	X	Free			40%
8448.59.10	00	Parts of knitting machines		Free			40%
8448.59.50	00	Other	X	Free			40%
8449.00		Machinery for the manufacture or finishing of felt or nonwovens in the piece or in shapes, including machinery for making felt hats; blocks for making hats; parts thereof:					
8449.00.10	00	Finishing machinery and parts thereof	X	2.6%	Free	(A,CA,E,IL,J,	40%
8449.00.50	00	Other	X	Free		,	40%
8450		Household- or laundry-type washing machines, including machines which both wash and dry; parts thereof: Machines, each of a dry linen capacity not					
8450.11.00		exceeding 10 kg: Fully automatic machines		1.4%	Free	(A,CA,E,IL,J,	. 35%
	10	Coin operated	No.			MX)	
	40 80	Top LoadingOther					
8450.12.00	00	Other machines with built-in		0.60		/3 G3 E TT T	400
		centrifugal dryer	NO	2.6%	Free	(A,CA,E,IL,J, MX)	, 40%
8450.19.00	00	Other	No	1.8%	Free	(A,CA,E,IL,J, MX)	. 35%
8450.20.00		Machines, each of a dry linen capacity exceeding 10 kg		1%	Free	(A,CA,E,IL,J,	. 35%
	10 90	Coin operatedOther				PIA)	
8450.90 8450.90.20	00	Parts: Tubs and tub assemblies	X	2.6%	Free	(A,CA,E,IL,J,	40%
8450.90.40	00	Furniture designed to receive the machines of subheadings 8450.11 through				MX)	
		8450.20, inclusive	X	2.6%	Free	(A,CA,E,IL,J, MX)	40%
8450.90.60	00	Other	X	2.6%	Free	(A,CA,E,IL,J, MX)	. 40%

8451

0431		for washing, cleaning, wringing, drying, ironing, pressing (including fusing presses), bleaching, dyeing, dressing, finishing, coating or impregnating textile yarns, fabrics or made up textile articles and machines for applying the paste to the base fabric or other support used in the manufacture of floor coverings such as linoleum; machines for reeling, unreeling, folding, cutting or pinking textile fabrics;					
8451.10.00	00	<pre>parts thereof: Dry-cleaning machines Drying machines:</pre>	No	Free		35%	
8451.21.00		Each of a dry linen capacity not exceeding 10 kg		3.4%	Free	(A,CA,E,IL,J,40% MX)	
	10 90	Coin operatedOther	No.			PIX)	
8451.29.00		Other		2.6%	Free	(A,CA,E,IL,J,40% MX)	
8451.30.00	10 90 00	For drying made up articles Other Ironing machines and presses (including					
0431.30.00	00	fusing presses)	No	Free		35%	
8451.40.00	00	Washing, bleaching or dyeing machines	No	3.5%	Free	(A,CA,E,IL,J,40% MX)	
8451.50.00	00	Machines for reeling, unreeling, folding, cutting or pinking textile fabrics	No	Free		40%	
8451.80.00	00	Other machinery	No	3.5%	Free	(A,CA,E,IL,J,40% MX)	
8451.90 8451.90.30	00	Parts: Drying chambers for the drying machines of subheading 8451.21 or 8451.29, and other parts of drying machines					
8451.90.60	0.0	incorporating drying chambers Furniture designed to receive the	Х	3.5%	Free	(A,CA,E,IL,J,40% MX)	
6451.90.60	00	drying machines of subheading 8451.21 or 8451.29	X	3.5%	Free	(A,CA,E,IL,J,40%	
8451.90.90		Other		3.5%		MX) (A,CA,E,IL,J,40%	
	10	Of machines for washing, dry-cleaning, ironing, pressing or drying made up textile articles or of other household or laundry type machines	х			MX)	
	20	Other: Of machines for bleaching, dyeing, washing or cleaning	X				
	90	Other	X				

Machinery (other than machines of heading 8450)

8452		Sewing machines, other than book-sewing machines of heading 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles; parts thereof:					
8452.10.00	10 90	Sewing machines of the household type Valued not over \$20 each Other Other sewing machines:	No.	Free			30%
8452.21		Automatic units:					
8452.21.10	00	Specially designed to join footwear soles to uppers	No	Free			Free
8452.21.90 8452.29	00	Other:	No	Free			30%
8452.29.10	00	Specially designed to join footwear soles to uppers	No	Free			Free
8452.29.90	0.0	Other	No	Free			30%
8452.30.00	00	Sewing machine needles		Free			42%
8452.40.00	00	Furniture, bases and covers for sewing					
		machines, and parts thereof	X	2.5%	Free	(A,CA,E,IL,J, MX)	20%
8452.90.00	10 90	Other parts of sewing machines	X	Free			30%
8453		Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather, other than sewing machines;					
8453.10.00	00	<pre>parts thereof: Machinery for preparing, tanning or working hides, skins or leather</pre>	No	Free			35%
8453.20.00 8453.80.00	00	Machinery for making or repairing footwear Other machinery		Free Free			Free 35%
8453.90		Parts:					
8453.90.10	00	Of machinery for making or repairing footwear	x	Free			Free
8453.90.50	00	Other	X	Free			35%